

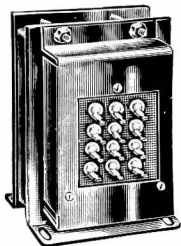
Radio
AMATEUR
Call Book Magazine

\$1¹⁰
Foreign
\$1²⁰

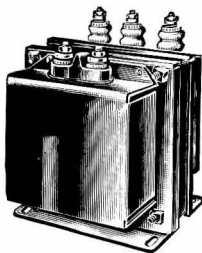


FALL 1934

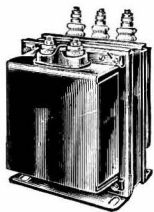
THORDARSON
Transformers are
made in more than
130 transmitting types



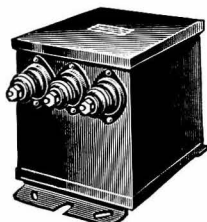
● T-6416—New multiple winding filament transformer. Has 10 V. 3 1/4 A., 10 V. 6 1/2 A., 7 1/2 V. 1 1/4 A., and 2 1/2 V. at 5 A. windings. Primary tapped for 105, 110, and 115 volts. 1600 V. insulation. List \$11.50, net \$6.90.



● T-6411—Designed specially to supply plates of NEW 800 TUBES. D.C. rating 1250 or 1000 V. at 280 m.a. May also be used with 203's, 211's, 845's, RK18 and similar types. Weight 30 lbs. List \$23.00, net \$13.80.



● T-6315—280 m.a. input choke for use in NEW 800 TUBE plate supplies. 19 h. at no D.C. and 12.35 h. at rated current. 5000 V. insulation. Weight 10 lbs. List \$8.50, net \$5.10.



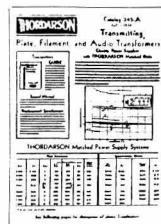
● T-6423 Class B audio output transformer for NEW TYPE 800, RK18, and 830B type tubes. Carries full plate current of Class C stage. Weight 17 lbs. List \$16.00, net \$9.60.

When the transmitting season starts this fall ~ ~ ~

Will you be ready?

**PUT NEW PEP INTO YOUR
"RIG" WITH THESE THORDARSON
SUPER POWER TRANSFORMERS**

● When the transmitting season comes to life this fall you will want to be fully assured of good results. There is no surer way than to revitalize your transmitting equipment with the new THORDARSON Super-Power Transformers.



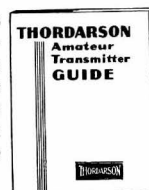
The new 1934 fall catalog is now ready to aid you in your choice of suitable equipment.

Whether you plan to use a full kilowatt of power or a small transceiver for five meter work you will find in the new THORDARSON line thoroughly dependable equipment for the purpose.

● In order to give you a wide selection—positive assurance that the Transformer you select is fitted for your specific requirements—THORDARSON now offers you more than 130 types from which to choose.

Send for your copy of the new fall 1934 catalog. It shows a new complete line Transmitting Plate, Filament and Audio (Class A, and B) Transformers. In it you will find many

important innovations in transformer equipment that will give you greater distance per watt and more watts per dollar. Ask your jobber or use the coupon below.



Transmitting-Guide

● No amateur should be without this thirty-two page reference book packed full of valuable data—containing circuit diagrams of complete new transmitters employing latest developments in transmitting technique. It is of tremendous value in planning improvements on existing circuits or in selecting new hookups. Get your copy free from your jobber with an order for THORDARSON transformers or send 10c with the coupon below.

Sound-Amplifier Equipment

● THORDARSON engineers have just completed preparation of a new, enlarged line of Class A and B audio, microphone, mixer, line coupling and output transformers for sound systems. Fully described in Catalog 345-A.

WRITE FOR THESE FREE CATALOGS

Here is a list of the THORDARSON Catalogs and Bulletins that will help you to select the proper type of equipment for every transmitting need. Fall 1934 Transmitter Catalog (free) full description of the new THORDARSON line. THORDARSON Transmitting Guide (10c) contains new circuit diagrams for modern transmitters and other valuable data. Free with order for transformers or sent postpaid for 10c. Sound Amplifier System Catalog (free). Receiver Replacement Transformer Guide (free). A trustworthy guide to replacement transformer satisfaction.

THORDARSON ELECTRIC MFG. CO.

500 WEST HURON STREET, CHICAGO, ILL.

*Fill out
this handy
coupon
today!*

THORDARSON ELECTRIC MFG. CO.
500 W. Huron St., Dept. A, Chicago, Ill.

Please send me the following new THORDARSON literature—

- ☐ Fall 1934 Transmitter Catalog (FREE).
- ☐ THORDARSON Transmitting Guide (10c enclosed).
- ☐ New Fall Receiver Replacement Transformer Catalog (FREE).
- ☐ Sound Amplifier System Catalog (FREE).

Name.....

Address.....

Licenses were unknown when we started in the "Ham" game and we know by this time that only the best is cheap. Here are some of the quality products we handle at prices that are right.



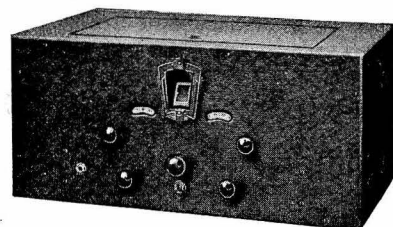
NATIONAL RECEIVERS

(National prices were advanced Sept. 15)

SW-3 can be supplied using 2½ v. tubes, a.c. or A.C.-D.C. using 2½ v. (Type 35 & 27) or 6 v. battery tubes, or using 2 v. battery tubes.
 Net price of tuner only in any model.....\$19.50
 Coils per pair for any of above types..... 3.00
 Power Pack for a.c. type SW-3 National..... 15.90
 Power Pack for a.c. type SW-3 Chi-Rad..... 9.50
 SRR Five meter Super-regenerative receiver (this price includes one coil)..... 19.50
 FB-7A 7 tube superheterodyne—tuner only..... 37.50
 FB-XA 7 tube super. with xtal filter tuner..... 51.90
 Pair of coils for either of the above..... 6.00
 Power Pack for FB7A or X..... 15.90
 Preselector for FB type receiver & coil..... 15.00
 Transceiver for five meter work..... 27.00
 Transceiver in wooden cabinet..... 40.50
 New National de luxe receiver (and Power Pack).....155.70

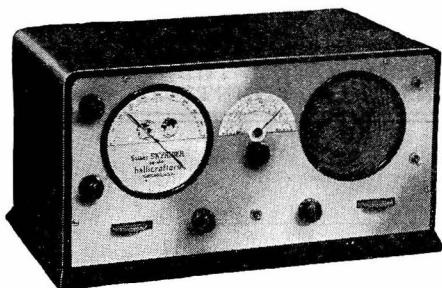
Information on New National De Luxe Super on Request

HAMMARLUND RECEIVERS



We carry these well known receivers IN STOCK. Our prices are guaranteed to be competitive. Our service and insurance of satisfaction has no competition. If you buy a receiver from CHI-RAD it has to be right or you get your money back WITHOUT QUESTION. We have hundreds of satisfied customers.

HALLICRAFTER SKYRIDER



A remarkable tuned r.f. receiver including loud speaker and band selection from 15 to 200 meters. Very compact. The band spread feature found in this receiver makes it ideal for amateur work and it is particularly "hot" on 20 meters. Price including tubes and speaker, \$39.95.

TRANSMITTING TUBES

Here are listed the popular numbers. We can supply, of course, any of tubes made by these manufacturers. Prices strictly NET.

RCA	SYLVANIA	RAYTHEON
510 \$ 4.20	203A \$17.50	RK 18 \$10.95
511 15.00	210 5.75	RK 19 7.50
545 15.00	211 17.50	and the Famous
203A 17.50	825 10.00	RK 20 15.00
800 10.00	830 8.75	
801 5.75	830B 10.00	
841 3.25	841 5.75	
852 23.80	852 23.80	It pays to buy
866A 5.00	865 12.75	GOOD tubes!
885 2.00	866A 8.50	
906 18.00	868 5.65	
	872 16.50	

OHMITE NEW DIVIDOHMS IN 100 AND 200 WATTS

No.	Resistance	MA	Net Price	No.	Resistance	MA	Net Price
0965	10000	100	\$1.15	1165	10000	140	\$1.35
0968	25000	63	\$1.39	1168	25000	89	\$1.62
0971	50000	44	\$1.53	1171	50000	63	\$1.91
0973	100000	31	\$1.76	1173	100000	44	\$2.35

These resistors have slider furnished and it is possible thereby to continuously vary the resistance. Made in size from 100 ohm to 100,000. Price on request.
 Clips for 100 Watt \$0.15. 200 Watt \$0.18.

ALL STAR KIT

(See All the Late Magazines for Complete Description)

This new and very logical kit arrangement can be built into a good super hot job. All parts are of the best and everything is outlined in the instructions so that it can be very easily put together. Descriptive matter on request. Kit comes net at about \$25.00. Including all tubes \$35.00.

COPPERWELD ANTENNA WIRE

Will not stretch. Can be supplied only in No. 12 per 100 ft., \$0.85.

NEW RME-9D RECEIVER

A truly fine actually custom built nine tube all wave superheterodyne with crystal filter, beat oscillator, band selection, band spread tuning, preselection and monitor. Very solidly constructed. Encased in crackle finish metal cabinet . . . less tubes, \$112.50.

KEYING & OVERLOAD RELAYS AT THE RIGHT PRICE!

Made by Guardian Elec. Mfg. Co.

Model K-100, Keying.....	\$3.23
Model B-100, Break-in.....	4.41
Model L-100, Universal overload 150-500 ma.	7.94

Prices on other types on request.

BLILEY CRYSTALS

Highest grade amateur crystals. Warranted to be satisfactory

Type BC3 (in holder) Mounted Supplied to specified freq. within

Mc Band	10 kc.	5 kc.	1 kc.	Exact
7.0	3.5	\$3.95	\$4.90	\$5.00
1.7		4.80	5.80	6.80

Add 50c if genuine G.R. plugs desired.
 100 kc. standard frequency xtals.....\$9.50

Bliley Unmounted Xtals—Standard 1" sq. x-cut, power type. Frequency accuracy within .05%. Supplied within 10 kc. of desired frequency in 80 & 160 meter bands for.....\$3.90

Bliley Xtal Holder—moulded with tube pin plug-in arrangement. For 80 and 160 meters. Type BC2..... 1.00

With genuine G.R. plugs ¾" spac..... 1.50

Bliley Single Signal Filter—supplied to 465, 500 or 525 kc. Completely mounted —Type SSF..... 5.90

Bliley Crystal Oven—Type BC6..... 7.50

Aluminum panels cut to order at the current market price. Send us your order.

DUBILIER NEW LATEST TYPE PYRANOL FILTER CONDENSERS

	1000 v.	1500 v.	2000 v.
1	\$1.50	\$2.25	\$3.15
2	2.70	3.75	4.80
4	4.20	5.40	6.60

ELECTRALLOY—A Fine Shielding Metal at a Low Price

Drills and bends readily. Non-magnetic. We will furnish in any size, cut to your order up to 30"x36". Price per square inch \$0.04.

METAL CABINETS, BOXES AND BASES

Made to your order at reasonable prices. Let us give you a price. Send in the dimensions or detailed drawings and we will reply very promptly.

All Prices Are Subject to Change Without Notice. Complete Catalog on Request

CHICAGO RADIO APPARATUS COMPANY, Inc.

415 South Dearborn Street (near Van Buren), Dept. CB-334, Chicago

(Established 1921)

WE OPERATE W9RA AND W9PST

Phone Harrison 2276

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

RADIO AMATEUR CALL BOOK MAGAZINE



(Registered at U. S. Patent Office)

Vol. 15

September 1934

No. 3

Published March, June, September, and December, by the

RADIO AMATEUR CALL BOOK, Inc.

Executive and Publication Offices: 608 South Dearborn Street, Chicago, Ill., U. S. A.

Telephone—Wabash 1903

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THIS IS THE OFFICIAL CALL BOOK OF THE RADIO SOCIETY OF GREAT BRITAIN, AND IS USED BY THE U. S. NAVAL RESERVE, U. S. ARMY—AMATEUR RADIO SYSTEM, THE AMERICAN RADIO RELAY LEAGUE, AND AMATEUR ORGANIZATIONS IN ALL COUNTRIES

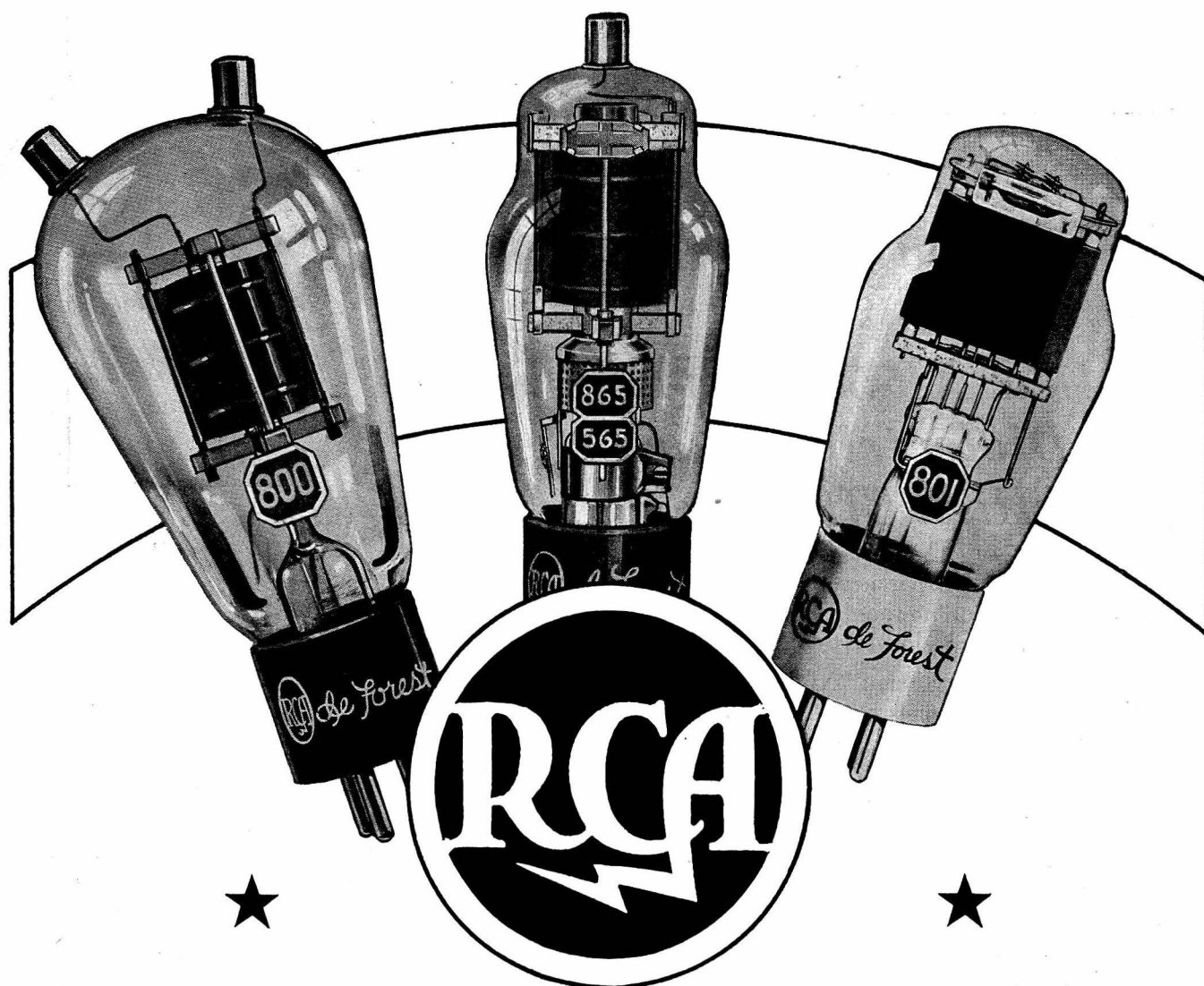
Contents for September 1934 Issue

United States—W1	19
W2.....	41
W3.....	62
W4.....	77
W5.....	86
W6.....	99
W7.....	130
W8.....	144
W9.....	177
High Frequency Commercial Stations.....	220
Foreign Amateurs by Countries.....	230
U. S. Postal Rates on Cards and Letters.....	285
Amateur Prefixes	286
High Frequency Press, Time and Weather.....	287
International Abbreviations and Signals.....	290
"Q, R, & T Systems" for Reporting Signals.....	291
Who's Who (commercial frequencies).....	292
New U. S. Radio Inspection Districts.....	297
Full Page Map of U. S. Radio Districts.....	298

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The Radio Amateur Call Book Magazine is published quarterly — March, June, September and December. Yearly subscription \$3.65 in U. S. and possessions, and countries in the American Postal Union. In Canada and countries not in the A. P. U., \$3.90 postpaid. Single copies \$1.10. (Canada and countries not in the A. P. U., \$1.20, postpaid.) Entered as second class matter June 7, 1928, at the post office at Chicago, Illinois, under the act of March 3, 1879.



LOOK TO RCA FOR ADVANCED TUBE DESIGN

The laboratories of the RCA Radiotron Company are constantly seeking new and better tube designs. This research bears fruit not only in new tube types such as the RCA-800 and RCA-801, but also in improvements in older types. Typical of such improvements in exist-

ing RCA de Forest tube types is the new design of the RCA-865/565.

To the amateur station operator, RCA Radiotron research means an assurance of trouble-free, satisfactory tube performance. For prices or technical information, see your RCA deForest distributor, or write to

RCA de Forest AMATEUR RADIO DIVISION
RCA RADIOTRON COMPANY, INC.
CAMDEN, NEW JERSEY

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

HAMMARLUND'S

First Low-Priced

COILS and COIL FORMS

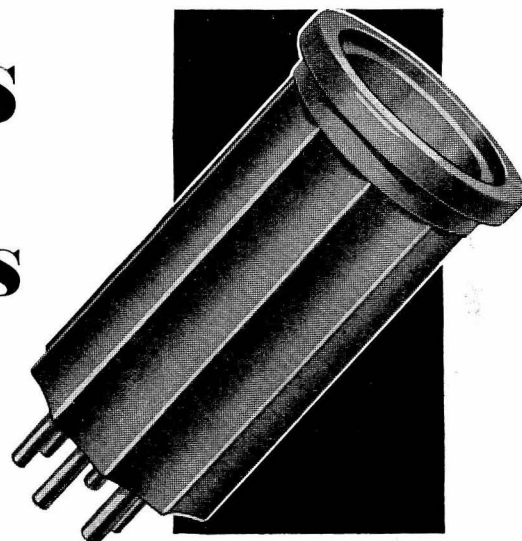
*New XP-53 Low-Loss
Dielectric Assures
High Efficiency!*

HAMMARLUND has never before made low-priced coil forms or coils, because, until now, only high-priced dielectric compound has measured up to Hammarlund's low-loss standards.

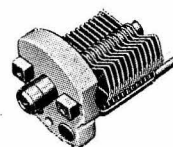
But the recent perfection of "XP-53," the remarkable new Hammarlund insulating material, presents a real opportunity.

Rugged, durable, good-looking and most important—the XP-53 dielectric losses are extremely low. Its amber color is natural—no artificial coloring to cause losses. The proportions of these new Hammarlund coil forms provide the most practical form factor. The forms are ribbed for air-spacing and have easy flange-grips with neat "meter-index" inserts for wavelength marking. A molded shelf inside each coil provides for mounting a Hammarlund "IBT" or "APC" trimming or padding condenser for tuning the coil to a fixed frequency, or for bandspread arrangement.

Supplied with 4, 5, or 6 prongs at 35c each list. Individually packed for protection.



"IBT" Mica - Dielectric Trimming or Padding Condenser.



"APC" Air-Dielectric Trimming or Padding Condenser.

New SHORT-WAVE COIL SETS



Wound on the new XP-53 forms described above.

Set of 4 coils (4 prongs, 2 windings) for 15-220 meters, \$3.00 list.

Set of 4 coils (6 prongs, 3 windings) for 15-220 meters, \$3.75 list.

Other coils (4 or 6 prongs) available for extending bands down to 10 or up to 550 meters.

Secondaries of the higher-frequency coils are wound with special low-loss silver-plated wire.



Mail coupon for information about the COMET "PRO" Receiver, and FREE Copy of Catalog "34" describing precision equipment for transmitting and receiving on all waves.



HAMMARLUND MANUFACTURING CO.
424-438 W. 33rd St., New York.

.....Check here and attach 10c for 16-page Hammarlund 1935 Short-Wave Manual, illustrating and describing most popular S-W circuits of past year, with schematic and picture diagrams and parts lists.
.....Check here for FREE information on XP-53 Coil Forms and Coils.
.....Check here for FREE General Catalog.

Name.....

Address.....

AC-9

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

ELECTRAD

Invites Comparison

THERE are resistors and resistors! Your judgment in selection may be good or bad. But there is one *safe* guide to reliable performance—look for the name “ELECTRAD.” It assures you of the best that many years of resistor specialization has developed. There is an Electrad resistor for every radio purpose. *Mail coupon for FREE new 1934-1935 Catalog and Vest-Pocket Volume Control Guide.*

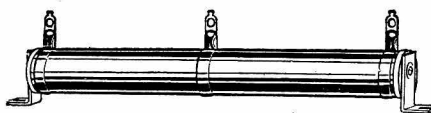
TRANSMITTER GRID LEAKS

Electrad's Transmitter Grid Leaks have exceptional advantages.

Wire-wound and vitreous-enameled, they withstand high temperature, dissipate heat quickly, do not absorb moisture, and hold their resistance value permanently.

Monel metal lugs and contact bands do not corrode. They insure positive contact with the resistance wire, regardless of expansion strains. *Guaranteed not to develop noise.*

Guaranteed Noiseless



Type TG—190 watts— $1\frac{1}{4}$ " x 10"

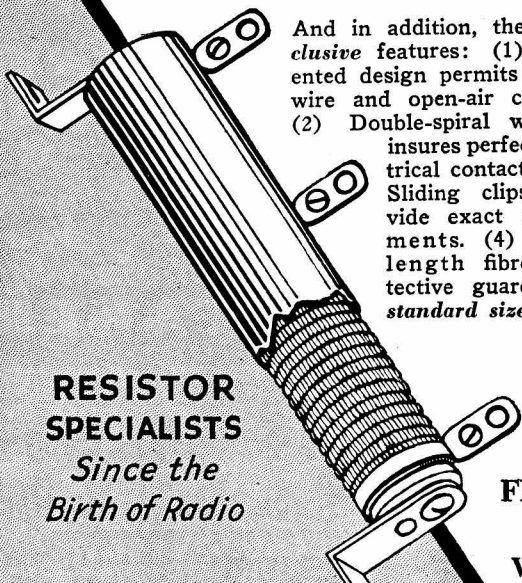
Type TL— 90 watts—1" x 6"

Type CF— 40 watts— $\frac{1}{2}$ " x 4"

TRUVOLTS

have a Safety Factor
of 1,000 VOLTS

And in addition, these *exclusive* features: (1) Patented design permits larger wire and open-air cooling. (2) Double-spiral winding insures perfect electrical contacts. (3) Sliding clips provide exact adjustments. (4) Full-length fibre protective guard. *All standard sizes.*



RESISTOR SPECIALISTS

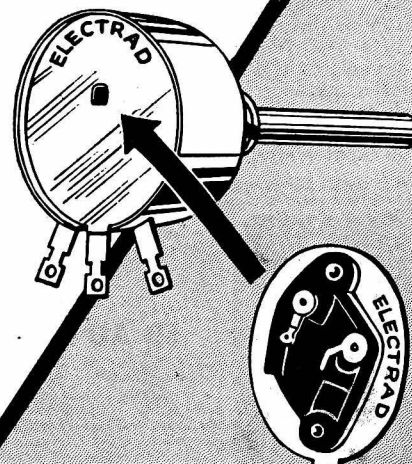
Since the Birth of Radio

175 Varick St., New York, N.Y.
ELECTRAD
INC.



New 16-Feature Volume Controls

Based on an entirely new engineering principle. Assures smoother, noiseless operation, longer life and more effective control than ever before. Removable standard end-cover provides for quick attachment of power - switch assembly without disconnecting wiring. Described in detail in the new 1934-1935 Electrad catalog.



FREE
Vest-Pocket
Volume Control
GUIDE

ELECTRAD, INC., Dept. AC-9
175 Varick St., New York

.....Check here for FREE 1934-1935 Catalog.

.....Check here for FREE Vest-Pocket Volume Control Guide.

Name.....

Address.....

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

THOUSANDS ARE *Enthusiasing* OVER THE *New* 1935 MIDWEST-16



World-Wide Entertainment

Hollywood, Calif.—Until I received my new Midwest radio, I had never thought it possible to bring in entertainment from half way around the world so clearly.

Jean Harlow
(Metro-Goldwyn-Mayer Star)



Amazing All-Wave Performance

Hollywood, Calif.—My Midwest is the best set I have ever tried. It gives me super foreign reception and new radio adventure. Its performance on all five wave bands amazes me.

RICHARD ARLEN
(Paramount Featured Player)



Thrilling Foreign Reception

Hollywood, Calif.—Not until I tried out my Midwest 16 did I really appreciate what radio reception was. It thrills me to bring in distant foreign stations as clearly as local programs.

(Paramount Star) Claudette Colbert



Better Foreign Reception

Hollywood, Calif.—I am quite enthused with my Midwest. Many friends who have heard it are delighted with its performance. It brings in, without a doubt, the finest all-wave reception I have ever heard.

Neil Hamilton

Thrill to Unequalled World-Wide Performance with this—

Amazing NEW 1935 SUPER Deluxe 16-Tube ALL-WAVE Radio

9 TO 2,400 METERS
(12,000 MILE TUNING RANGE)

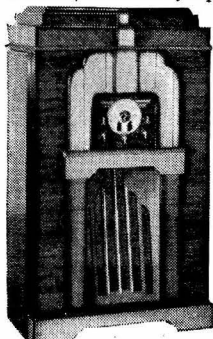
30 DAYS FREE TRIAL

Guaranteed WORLD-WIDE RECEPTION!

BEFORE you buy any radio, write for FREE copy of the new 1935 Midwest "Fifteenth Anniversary" catalog. See for yourself the many reasons why over 110,000 satisfied customers have bought their radios direct from Midwest Laboratories . . . and saved from 1/4 to 1/2. Learn why Midwest radios out-perform sets costing up to \$200 and more. You, too, can make a positive saving of from 30% to 50% by buying this more economical way. Why be content with ordinary so-called "All-Wave", "Dual Wave", "Skip Wave" or "Tri-Wave" receivers when Midwest gives you more wave lengths in today's most perfectly developed 16-tube Super de luxe ALL-WAVE radio that are proven by four years of success . . . that carry an iron-clad guarantee of foreign reception! These bigger, better, more powerful, clearer-toned, super selective radios have FIVE distinct wave bands; ultra short, short, medium, broadcast, and long. Their greater all-wave tuning of 9 to 2400 meters (33 megacycles to 125 KC) enables you to tune in stations 12,000 miles away with clear loud speaker reception. Write TODAY for new FREE catalog!

Now, you can enjoy super American, Canadian, police, amateur, commercial, airplane and ship broadcasts . . . and derive new delight and new excitement from unequalled world-wide performance. Now, you can enjoy the DX-ing hobby and secure verifications from more of

the world's most distant stations. Thrill to the chimes of Big Ben from GSB, London, England . . . tune in on the "Marseillaise" from FYA, Pointoise, France . . . hear sparkling music from EAQ, Madrid, Spain . . . delight in lively tangos from YVIBC, Caracas, Venezuela . . . listen to the call of the Kookaburra bird, from VK2ME, Sydney, Australia, etc. Send today for money-saving facts.



NEW STYLE CONSOLES

The new, big, Midwest 36-page 1935 catalog pictures a complete line of beautiful, artistic de luxe consoles and chassis . . . in four colors . . . a model for every purse. Hand made by master craftsmen, they harmonize beautifully with any furniture arrangement. Write for new FREE catalog today!



Sign and mail coupon . . . or, send name and address on postal card . . . NOW!

50 ADVANCED 1935 FEATURES

Here are a few of Midwest's superior features: Controllable Expansion of Volume-Selectivity-Sensitivity (Micro-Tenuator) . . . Fidel-A-Trol . . . Triple Calibration Plus . . . Pure Silver Wire . . . Ceramic Coil Forms . . . Separate Audio Generator . . . Simplified Tuning Guide Lights . . . Compact Synchronized Band Switch . . . Amplified Automatic Volume Control . . . 7 KC Selectivity . . . Power Driver Stage . . . 16 Latest Type Tubes . . . etc. Read about these and 38 other features in the new FREE Midwest catalog. Never before so much radio for so little money. Write for FREE catalog.

DEAL DIRECT WITH LABORATORIES

Increasing costs are sure to result in higher radio prices soon. Buy before the big advance . . . NOW! . . . while you can take advantage of Midwest's sensational values . . . No middlemen's profits to pay. You can order your radio from the new Midwest catalog with as much certainty of satisfaction as if you were to select it in our great radio laboratories. You save 30% to 50% when you buy direct this popular way . . . you get 30 days FREE trial . . . as little as \$5.00 down puts a Midwest radio in your home. Satisfaction guaranteed or money back. Write for FREE catalog.

SAVE UP TO 50%

WORLD'S GREATEST RADIO VALUE

\$57.50 with New **Deluxe Auditorium-Type SPEAKER**
... LESS TUBES ...

Jean Harlow, Richard Arlen, Claudette Colbert, Neil Hamilton, Maureen O'Sullivan, Gloria Stuart and Ginger Rogers are some of the movie stars who prefer the Midwest radio because it gives them the super all-wave reception that they desire.

Try the Midwest for thirty days before you decide. Midwest gives you triple protection with: A one-year guarantee, foreign reception guarantee, money-back guarantee.

MAIL COUPON TODAY! FOR AMAZING 30-DAY FREE TRIAL OFFER AND NEW 1935 CATALOG

MIDWEST RADIO CORP.,
Dept. 626
Cincinnati, Ohio.

Without obligation on my part send me your new FREE 1935 catalog, and complete details of your liberal 30-day FREE trial offer. This is NOT an order.

User-Agents
Make Easy Extra Money
Check Here for Details ☐

Name _____
Address _____
Town _____ State _____

MIDWEST RADIO CORP.

DEPT. 626 — CINCINNATI, OHIO, U. S. A.

Established 1920

Cable Address Miraco. . . . All Codes

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

Time to Rejuvenate Your Old XMTR



Pluck the cob-webs from your old rig, O.M. Now is the time to tear it all down and begin anew, with that long-cherished rack and panel job or that hi-power phone outfit as the goal. Yes—now is the time—and ALLIED RADIO is the place. You can prove both by sending for the new ALLIED Autumn and Winter 1935 Catalog with its timely complete standard Amateur line listings. We stock everything by National, Hammarlund, Thordarson, Bliley, Johnson, Taylor, Cardwell, Stancor, RCA-DeForest, etc. We can supply complete parts for any circuit described in all periodicals or handbooks. Write for quotations and parts lists. Our service is bright and speedy. W9NRV and W9RZI are always on the job. Whatever your wants may be, we can supply them quicker and better, at consistently lower prices. The thing to do right now, O.M., is to sit down and write for the new 1935 ALLIED Catalog—it's yours for the asking.

Allied Radio
CORPORATION
833 W. JACKSON BLVD. CHICAGO ILL.

Dept. I

Send me your Free 1935 Radio Catalog with the Special Complete Amateur Listing.

Name

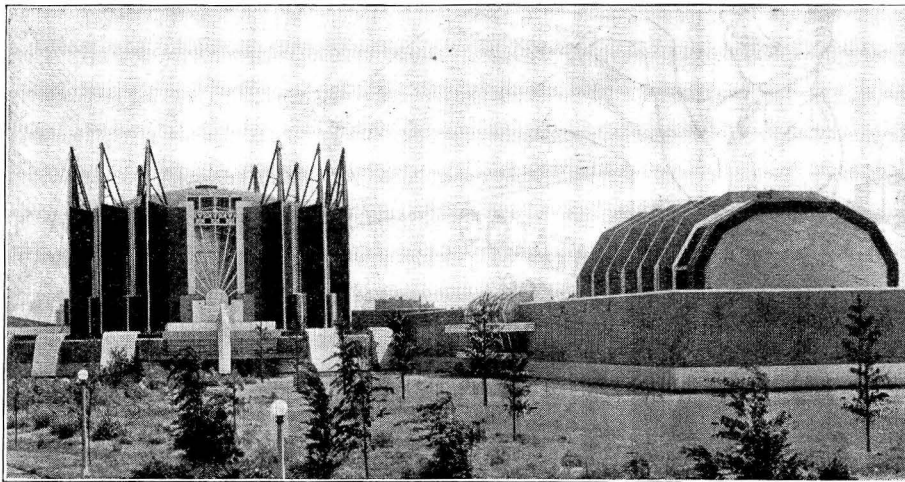
Address

City State

(Your QSL card will be greatly appreciated.)

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

W9USA—Radio Amateur Exhibit “A CENTURY of PROGRESS”—1934



Travel and Transport Building (Our Home)

Make the Hams' Lounge at the Radio Amateur Exhibit your Headquarters when you visit the World's Fair in Chicago this year. W9USA is located on the second floor of the T. and T. Building, whose suspended dome is easily seen, just south of the 31st St. entrance to the exposition. Park your car near this entrance, if you drive, or take the Illinois Central electric, 10c fare from Chicago's "Loop" to 31st St. station.

The World's Fair Radio Amateur Council, sponsor of the 1933 Radio Amateur Exhibit, is again host to all visiting hams in our 1934 Display.

Nearly 2000 square feet—crowded with Radio Amateur Exhibits and displays—a show you will never forget. Amateur Radio—presented to you in a "New Way"—colorfully and artistically handled in true 1934 style.

W9USA is our call for all transmitters in use at the Fair. Watch for us and give a call or send a report when you hear us. Thanks.

There are six transmitters of various powers and types. You may come over and work one of the rigs if you **bring your license with you**. (This is absolutely necessary since no one will be allowed to operate **without** his license.) Remember this—for your own satisfaction.

Yes, the ARRL is 100% with the World's Fair Radio Amateur Council. We are not only affiliated with ARRL but QST is doing everything possible to help us present the story of Amateur Radio to the Public.

Radio manufacturers have their latest and best material on display and in use in our transmitters.

There are prizes for the best manufacturer's exhibit and prizes of all kinds for attendance of radio amateurs from everywhere.

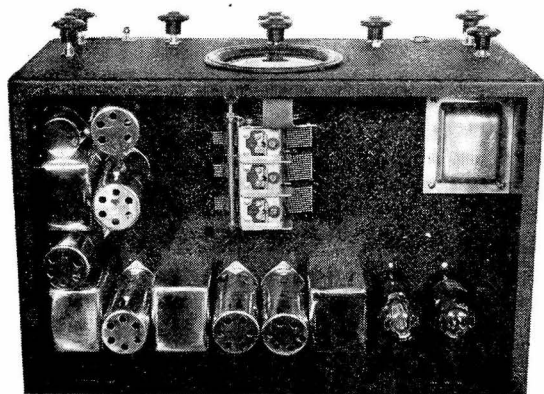
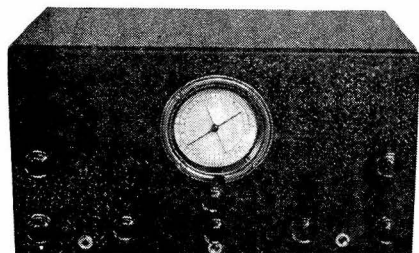
Among the Special Features of the Radio Amateur Exhibit, is the transmitter in operation in the Court of the Hall of Science. "A Century of Progress" is cooperating in this activity and every afternoon an audience of 10,000 witnesses our feature performance consisting of actual radio transmissions conducted in true amateur radio fashion. Contact will be made with radio amateur stations throughout the world primarily on the 7000 and 14,000 Kc bands. Both Code and Voice are used, on the proper bands, and both sides of all conversations are presented to our huge audience seated in the Court. By giving the complete conversation to the audience, with the aid of an intricate loud speaker system, our guests are enabled to "listen in" on an Amateur Radio Station at work and get the feeling of an actual "QSO." Many thus have their first opportunity to see an Amateur Radio Station in action.

The World's Fair Radio Amateur Council has built a Special Transmitter, for the purpose, consisting of two 203-As Class B modulating two 211s in the output stage. Complete control of the station is in the hands of the Council and the Call W9USA is used.

The Radio Amateur Exhibit is for "the Amateur" and "the Public" and we aim to bring the two closer to one another by the presentation of amateur radio in graphic display method. Will you be there?

WORLD'S FAIR RADIO AMATEUR COUNCIL
19 South Wells Street **Chicago, Illinois**

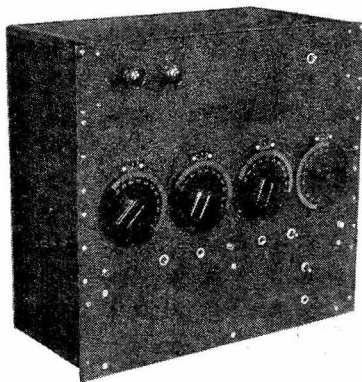
The NEW 5C PROFESSIONAL SINGLE SIGNAL SUPERHETERODYNE



TYPE 10D 100 WATT PROFESSIONAL PHONE-C.W. TRANSMITTER

The type 10D transmitter is the amateur's dream come true. It provides 100 to 120 watts of crystal controlled r.f. power on the 10, 20, 40, 80 and 160 meter amateur bands modulated 100% with high fidelity broadcast station modulation, all at a cost below what you can build it for!

It employs one RK20 screen grid r.f. pentode as a crystal controlled Tritet (electron coupled) oscillator.



Modulation is effected by suppressor grid voltage variation, which is obtained from a simple three stage audio modulator. But read its specifications, look at its price, and get on the air with 100 watts of broadcast station voice quality, cheaper than you can build a 100 watt telegraph transmitter!

Order it from your dealer or direct and join the P.W.A.C. Club (Phone Worked All Countries).

SPECIFICATIONS

R.F. Output: 100 to 120 watts on fundamental crystal frequency. 60 watts on crystal second harmonic.

Frequency Range: 10, 20, 40, 80 or 160 meter amateur bands. One pair of two plug-in coils covers each band.

Tubes Needed: 1—RK20 Oscillator, 1—RK19 Rectifier, 1—2A5 Power Amplifier, 1—53 Voltage Amplifier (2 stages), 1—80 Rectifier.

Modulation: Linear suppressor grid modulation variable from zero to over 100% at will. Harmonic distortion less than 5% at 100% modulation.

Audio Frequency Range: Modulation curve flat to 4db. from 40 to 8000 cycles. Variable tone control provided for high audio frequency attenuation as desired.

A.C. Modulation Hum: Negligible.

Phone-Telegraph Section: Two position toggle switch and r.f. unit selects phone or C.W. telegraph operation at will.

Antenna Tuning: Two 365 mmf. condensers provided for series antenna tuning, or parallel antenna tuning by shift of two connecting links.

Meters: None provided except on special order (mounted

on r.f. unit panel). One 0-150 ma. milliammeter and, if desired one 0-2 antenna thermometer are all required to check operation.

Controls: Oscillator plate, r.f. plate and two antenna tuning dials. Phone-Telegraph, send-receive, modulator on-off and power on-off switches. Screen and plate current measuring jacks. Key jack.

Size: Total height of all three 19" x 3 1/8" aluminum relay rack panels, 19 1/4". Supplied complete in dust cover shielding cabinet of perforated steel with hinged rear door. May be operated on table, or mounted in relay rack.

Power Required: 350 watts at 105 to 125 volts, 50 to 60 cycle A.C.

Accessories Needed: One Billey crystal and holder (specify frequency), one crystal microphone, and tubes as listed above.

Price net to Amateurs, \$119.70.

Five Raytheon tubes \$25.23 net.

Coils, per set of two (one set included, specify if for 20, 40, 80 or 160 meter band) \$3.60.

Send 3c stamp for new complete catalog describing above items, E.C. Frequency Meters, New Airplane Dials, Relay Racks, R.F. Chokes, Audio, Power and Filter Transformers, and a host of new and interesting amateur and commercial apparatus.

McMURDO SILVER, INC.
3348 NORTH PAULINA STREET, CHICAGO, U. S. A.

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

NEW! MID-WEST RADIO MART PRESENTS THE WORLD'S LARGEST SHORT-WAVE TRANSMITTING AND RECEIVING EQUIPMENT CATALOG

THIS MID-WEST POLICY IS YOUR PROTECTION



I GUARANTEE—that every order received by MID-WEST RADIO MART will be shipped exactly as specified by the purchaser. Substitution of parts will not be made under any conditions without the express permission of our customer. Furthermore, every transaction is made on the basis of your unqualified satisfaction. I will refund in full for any purchase that does not give full satisfaction!

Sincerely yours,

Louis Poncher

Get the famous
"4-Hour" MID-WEST Service
on all leading lines

NATIONAL — HAMMARLUND — THORDARSON — RCA-
DEFOREST — RAYTHEON — SYLVANIA — WESTON —
ELECTRAD — LYNCH — CARDWELL — BLILEY — AER-
VOX — SIGNAL — TRIMM — JOHNSON — OHMITE
—and every other worth while line of short-wave transmitting
and receiving equipment. We carry complete stock so your
order can be shipped immediately upon receipt.

The NEW FALL CATALOG shows the most complete listing of short-
wave equipment ever assembled in one book. For months MID-WEST has
been building up stocks of hard-to-get parts to avoid disappointment for
their customers when the fall season starts.

Get your copy of this catalog and use it for planning your new equipment.
If you need parts immediately, just send your order to MID-WEST, for
you are guaranteed full satisfaction on every order or money back without
question.

VALUES—There are hundreds
of bargains listed in the
New Fall MID-WEST CATALOG

- | | |
|--|--------|
| THORDARSON T-3733 Plate and Filament Trans-
formers, net | \$1.95 |
| 550 volts on either side of center-tap. Fil. 7.5 volts at 2.5 amps.,
5 volts at 3 amps., and 2.5 volts at 5 amps. Two may be used in
parallel to supply fifty watters. | |
| 30 H.—100ma. Choke for receivers and transmitters,
net | \$0.59 |
| 15-Watt Type 210 Tube, will stand up to 600 volts,
net | \$0.98 |
| THORDARSON T-6878 Plate and Filament Trans-
former, net | \$2.95 |
| 675 volts each side of center-tap, 200 ma. 7.5 volts at 3 amps. 5 volts
at 3 amps. 2.5 volts at 10 amps. | |
| THORDARSON T-6877 Transmitting Choke,
net | \$2.10 |
| 15 henries at 250 ma. Open type mounting. | |

FREE
get your COPY
today



MID-WEST RADIO MART

520 S. State Street, Chicago, Ill.

MID-WEST RADIO MART
520 S. State St., Dept. A., Chicago, Ill.

Please send a copy of the FREE new FALL Short-Wave.

NAME.....

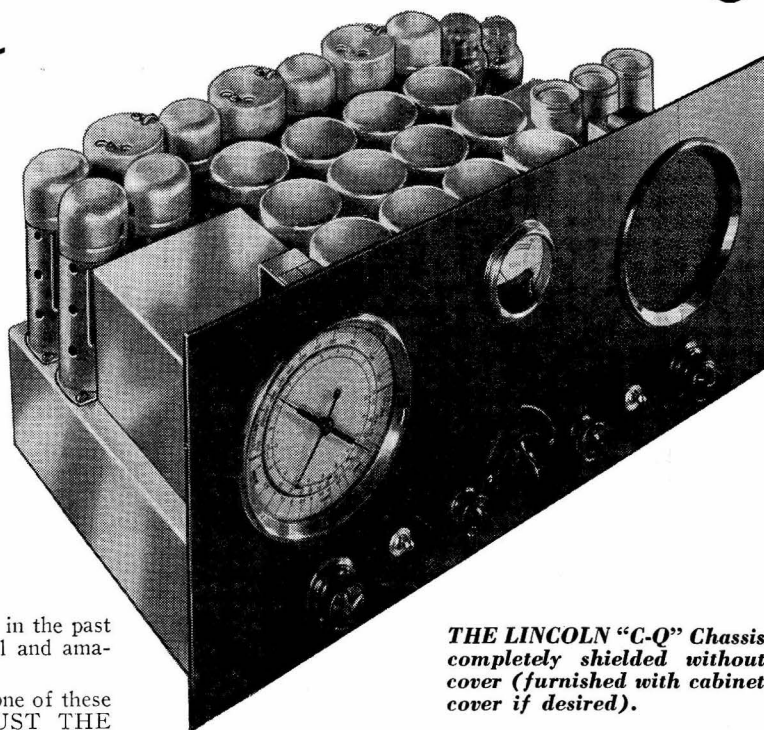
ADDRESS.....

Build for Yourself

The New Lincoln "C-Q"

The First Highly Engineered Receiver for Phone or C. W. Reception . . .

Designed in the famous Lincoln Laboratory in co-laboration with the world's greatest engineers with years of experience in building the world's finest receivers—receivers which have given unexcelled results with the McMillan Polar Expedition—Press Association—Trans-oceanic Communication System and Amateur Radio.



THE LINCOLN "C-Q" Chassis completely shielded without cover (furnished with cabinet cover if desired).

The high cost of the best custom-built receivers in the past has been prohibitive to thousands of commercial and amateur operators.

NOW for the first time you can build and own one of these finely engineered receivers at the cost of JUST THE PARTS ONLY. We are passing on to you absolutely free the complete engineering and construction data, with each set of parts, which will make it possible for you to complete and put on the air a Lincoln Engineered Receiver, which heretofore would be beyond the range of the average pocket-book.

The Lincoln "C-Q" was not designed in a day. It has taken years of experience in building the finest of high priced, highly engineered receivers, catering to the most critical clientele, to be able to put into operation this great instrument.

The high sensitivity and low noise level in the "C-Q" aided by extreme selectivity make it possible to work DX stations giving them a high QSA and R rating.

General Description

- Chassis, 18½" long, 10" deep, 8" high.
- Circuit, 8 Tube Superheterodyne.
- Tubes, Tuned radio frequency 6D6; Oscillator—76; Electron Coupled to 6A7 Modulator; 1st I.F. 6D6; 2nd I.F. and Beat Oscillator 6F7; 2nd Detector 76; Audio 42; Rectifier 84;
- Range, 1500 to 30,000 kilocycles 5 bands.
- Tuning, Single Combination Condenser (3 Gang) (Full Floating) and Airplane type dial for both main and band spread tuning.
- Inductance—All Coils completely shielded individually, separately padded by isolantite condensers.
- I.F. Transformers; New high selectivity and sensitivity system sectional wound inductance, tuned by high dielectric isolantite condensers.
- Round Type Tuning Meter and signal strength Indicator;
- Audio Frequency Control; Beat Oscillator automatically cuts out AVC Action.
- Full Floating Dynamic Speaker.

This message is being presented to the most intelligent radio audience—Men who know radio and who have contributed much towards the art of successful radio communication. I do not know of any angle of the radio game in which I am more interested than the Amateur Bands. In years of building highly engineered high priced equipment for the critical BCL and many receivers for communication work, I have tried to put into the new Lincoln "C-Q" every bit of the past knowledge, coupled with new possibilities and new tubes with very startling results. Putting this equipment into kit form has opened up an entirely new channel, whereby you can couple your expert ability in building with our many past years of experience in engineering and designing. To the old timer, I know the new "C-Q" is going to widen out your range, reduce your QRN and QRM and give you more five and nine signals. To the new "ham" just coming on the air, you can start at low cost with a quality custom built receiver.

W. H. HOLLISTER
President

See your local jobber at once, or write to the Lincoln Radio Corporation for complete details and prices on complete built chassis in our laboratory or complete C-Q parts and full construction data. Parts may be purchased just as fast as your pocketbook permits.

LINCOLN RADIO CORPORATION
2222 Diversey Ave., Chicago, Ill.

HIGH QUALITY TRANSMISSION

*is now within the reach of
every amateur's pocketbook
with*

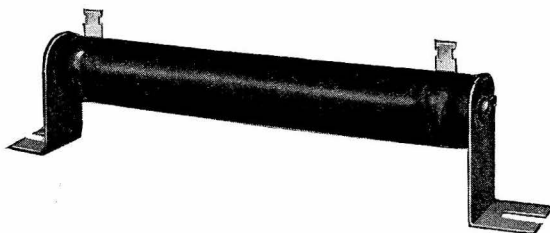
MORRILL

SERIES R OIL CONDENSERS



1000, 1500 and 2000 Volts
Low Cost
Extremely Compact
Sturdy Construction
Conservative Ratings

VITREOUS ENAMELLED WIRE WOUND RESISTORS



Grid Leak Resistors
Non-Inductive Resistors
Bleeder Resistors
Center-Tapped Resistors
Adjustable Resistors
Replacement and General Purpose Fixed Resistors

SERIES T TROPICAL CONDENSERS



800-5000 Volts
The Super-Quality Condenser

Used Where Quality Counts

Ask Your Jobber for the Latest Morrill Catalog Listing

High and Low Voltage Paper Condensers
Electrolytic Condensers
Carbonized Resistors

Wire Wound Resistors
Magnetic Relays
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Precision Resistors

or write us directly giving us your jobber's name



MORRILL AND MORRILL
30 Church Street NEW YORK, N. Y.



Tell 'Em You Saw It in the Radio Amateur Call Book Magazine



THE NEWEST IN AMATEUR RADIO

PATTERSON PR-10 15 TO 575 METERS

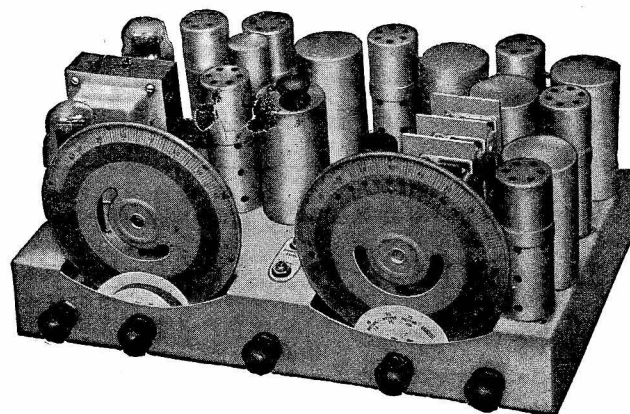
List Price \$119⁵⁰
Your Cost \$70²⁵
 40 and 2 Off.
Plus Transportation

A PRODUCT by a company who began building radio sets in 1920. Capable and intelligent engineers have made this wonder set possible. All over the world glowing reports come—unsolicited testimonials from Hams who know. And say, are Hams critical—and they should be—they want the best and most efficient receivers. Listen in on the Ham bands—you'll hear Patterson PR-10 owners praising it to the skies.



PR-10 Model

EASE OF OPERATION FEATURE OF PR-10
Equal Gain All Frequencies
Complete Band Coverage
No Coils to Change



**Complete with 10 Newest Type Tubes and
 10½" Magnavox Dynamic Speaker**

Manual and Automatic Volume control included.
 FULL band coverage.
 Vacuum Tube Voltmeter CALIBRATED IN "R.S."
 BAND SPREAD on all frequencies.
 Self-contained power supply.
 Dual shielded 16 gauge cabinet.
 Three stage intermediate frequency amplifier.
 No coils to change—select any band by the turn of a knob.
 Patterson Velvet Tuning Dials. Easiest, smoothest ever built.
 Phone Jack.
 Tubes used—3-57, 3-58, 1-55, 1-59, 1-5Z3, 1-56.
 Receiver size . . . length, 19"; width, 10"; height, 11".
 All parts of PR-10 chassis, first copper plated, then finished with chromium plate.
 The New Patterson will out-demonstrate any radio on any frequency regardless of price.
 Lowest priced high quality true amateur model ever offered.
 PR-10 model also made with chromium plated cabinet. . . List \$134.50. Your net cost \$79.08.

**For the Amateur, C. W. or Phone, the DX
 Fan, Novice or Professional the
 PR-10 Reigns Supreme**

Not a single important feature has been omitted. Greater power, greater range, finer sensitivity, amazing selectivity gives you just what you want, and nothing else. All bands operate perfectly, no dead spots. Automatic Volume Control, all bands, no coils to change.

PROMPT DELIVERY

PATTERSON RADIO COMPANY



1320 South Los Angeles Street

LOS ANGELES, CALIFORNIA, U. S. A.

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

If it's a "BIRNBACH" —it's RIGHT!

THAT caption is not just idle boasting. It is a *pledge* of high-quality materials and workmanship, and satisfactory performance of every product bearing the "BIRNBACH" name.

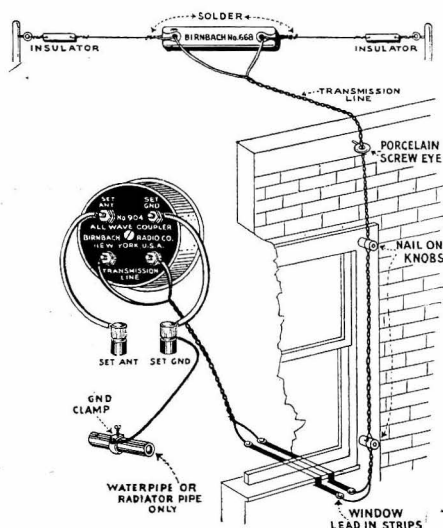
New in design and high-standards of efficiency, these products are backed by one of the oldest engineering organizations in the radio field. You can rely on them. *Mail the Coupon for Complete Details.*

ANTENNA SYSTEM for ALL-WAVE Receivers

Improves reception on both short and regular broadcast wavelengths. Strengthens signals, reduces interference and noise.

Specially designed for use with modern all-wave receivers, but equally efficient for other types.

Complete Kit No. 150 includes all parts, accessories and instructions. *List price, \$3.75.*

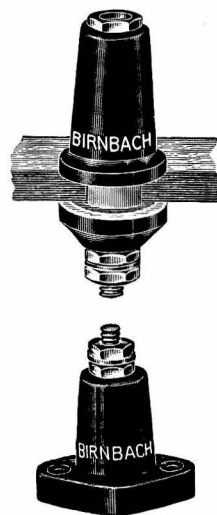


STANDOFF

Insulators

Now available with cork washers to prevent injury when tightly mounted

No. 478J Jack Type—Highly-glazed porcelain, nickel-plated brass hardware. One-hole mounting. Insulating collar permits feeding through metal sub-panel with minimum wiring. Jack takes GR plug. Especially useful for experimental work. Two sizes: $\frac{7}{8}$ " high with $\frac{3}{4}$ " base and $1\frac{1}{4}$ " high with $\frac{7}{8}$ " base. List prices, 25c and 30c. Also screw-and-nut type (without jack) in three sizes: $\frac{5}{8}$ ", $\frac{7}{8}$ " and $1\frac{1}{4}$ ". List prices, 13c, 20c and 25c.



No. 366 Midget—Base type with screw-and-nut terminal. Three sizes: from $\frac{1}{2}$ " high with $\frac{7}{8}$ " base, up to $1\frac{5}{16}$ " high with $1\frac{1}{2}$ " base. List prices, $6\frac{1}{2}$ c, $7\frac{1}{2}$ c and 12c. Made also in jack type, $1\frac{5}{16}$ " high with $1\frac{1}{2}$ " base. List price, 15c each.



Doublet-Antenna

TRANSPPOSITION BLOCKS

No. 456 BIRNBACH TRANSPPOSITION BLOCKS have important improvements not found in others. Transposed feed-lines cannot twist. No rough edges to chafe insulation. No sharp corners to break or kink the wire. Made of fully-glazed, high-resistance, weatherproof ceramic of great tensile strength. *List price, 15c each.*

ANTENNA SPRING

Prevents Sagging



Keeps antennas taut for greatest efficiency, without straining wire. Prevents sagging, swaying and contact with surrounding objects. Specially adapted to doublet-antennas having added weight of transposition blocks. Cadmium-plated, rustproof spring with interlocking hooks. Porcelain insulating eyes. No. 765—*List price, 50c each.*

BIRNBACH RADIO CO., INC.
145 Hudson Street, New York City



BIRNBACH RADIO CO., INC.
145 Hudson Street, New York City

Please send free information on the following:—I am listing numbers of products in which I am interested.....

Check here (.....) if interested in all products.

Name.....

Address.....

AC-9

Three Short Wave Specials Every Radio Amateur Should Know About

Lafayette TRANSCEIVER FOR 5 METER COMMUNICATION

This Lafayette "19" Transceiver has been designed to give approximately 10 times the output usually found in units of this kind. This is due to the employment of a type 19 dual-triode tube as a unity coupled p.p oscillator modulated by a second type 19 operating as a Class "B" modulator which is fed by a type 230 employed as a speech amplifier.

In the "receive" position the 19 oscillator automatically becomes the self-quenching super-regenerative detector, the output of which is transformer coupled to the UX-230 which acts as a first stage driver amplifier for the 19 Class B tube... now the second audio stage. Signal strength in most cases is sufficient to operate loud speaker.

Both of these transceivers are entirely self contained and weigh complete with batteries but 26 lbs. Size 15"x6½"x7¾". They have been developed after considerable research in the field and laboratory and represent the best experience in this field.

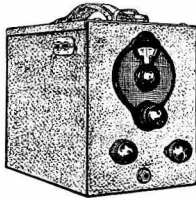
Your cost less tubes and batteries..... **\$17.95**
Kit of tubes—2—"19's" and 1—"30"..... 2.40
Complete kit of batteries for above..... 4.00

THE LAFAYETTE "30"

Similar to the above except that a type 30 tube is employed as the oscillator and a type 33 as a Class A modulator in the "transmit" position. In the "receive" position the "30" becomes a self-quenching super-regenerative detector and the "33" an audio amplifier.

Your cost less tubes and batteries..... **\$9.95**
Kit of tubes for above..... 1.89
Complete kit of batteries for above..... 4.20

BAND SPREAD PORTABLE



Compact as a Camera And as Easy to Use

You'll be amazed that such a trim, small set can give such performance! This 2-tube Band Spread Portable brings in London, Berlin, Madrid. Take it any place, for it weighs but 9 pounds complete with its self-contained batteries! Station finding is easy

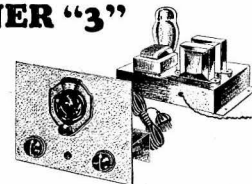
due to a simple arrangement whereby the main tuning condenser is connected across only a portion of the secondary winding while a small adjustable variable condenser is connected across the entire grid winding. The main tuning condenser, therefore, has a very slight tuning effect so that the entire dial movement represents but a limited frequency range—hence the "band spreading action"... It makes an ideal amateur station monitor. Other features are: low current drain, smooth regeneration, extreme ease of building and low price. Black crystalline finish.

Kit of parts..... **\$7.95**
Kit of two tubes, add..... 1.44
Kit of batteries, add..... 1.18

Coils covering the following bands are available at .55 ea.:
19, 20, 25, 31, 40, 49, 80 and 160 Meters.

TROPHY WINNER "3"

As Easy to Build as a 1-Tube Set



Here is a really superior Short Wave Receiver. Its performance is the kind you usually associate with only the most expensive sets. Yet the cost is low... just a few cents more than most 2-tube kits. No wonder it has been acclaimed editorially by Short Wave Craft, Short Wave Radio Magazine, Popular Science Monthly and the N. Y. Sun! And how easy it is to build! All parts are so placed that a minimum of soldering and wiring is required. The Trophy Winner "3" comes with power supply kit including chassis, power transformer; employs 3 mfd. filter condensers; two 30 henry filter chokes... all over size. Output: 250 v. at MA. Operates from any AC house current and is free from hum. Black crystalline finish.

AN 13905—Trophy Winner "3" A.C. kit of parts complete with wiring diagram, less coils, tubes, power supply..... **\$9.95**
AN 13906—Power supply kit of parts, less tube..... 4.95
AN 13907—Special Coils, 16 to 200 meters..... 2.25
AN 13908—Kit of matched tubes for receiver and power supply..... 2.30
AN 13985—Complete kit of parts. Set, power supply, coils and tubes..... 18.45

New Branch at ATLANTA *short wave HEADQUARTERS of the south*

Our New Branch in Atlanta

is Short Wave Headquarters for "Hams," "Brass Pounders" and Short Wave FANS. If you live in the South or South West, order from Atlanta and save money both on your purchases and in transportation costs. We are National Distributors for all leading lines of radio equipment. Here are a few of the lines we carry in stock at all times: Cardwell, Hammarlund, National, United Transformer, Allen-Bradley, Weston, Triplet, Lechner Transmitting Condensers, Cornell-Dublier, Sangamo, Pyrex, Signal, etc., etc.

When in need of S.W. apparatus, the logical place to buy is from Wholesale Radio Service Company, where you are assured of **LOWEST WHOLESALE PRICES as well as a Square Deal.**

1935 CATALOG NOW READY!

The greatest we have ever published. 192 pages packed with dynamic values. Over 55,000 items! The most complete array of Short Wave and Transmitting Equipment, including sets, kits, transceivers, condensers, coils, converters, chokes, crystals and holders which any company has ever listed between the covers of a single catalog! By all means get **YOUR** copy today, for it shows the latest, newest equipment made by the Leaders for the Amateur's requirements during 1935!

WHOLESALE RADIO SERVICE CO.

100 Sixth Ave., Dept. RAC-104, New York, N. Y.

☐ Send me your new 1935 Catalog No. 56.

☐ Send me the items I have listed in attached letter.

Name.....

Address.....

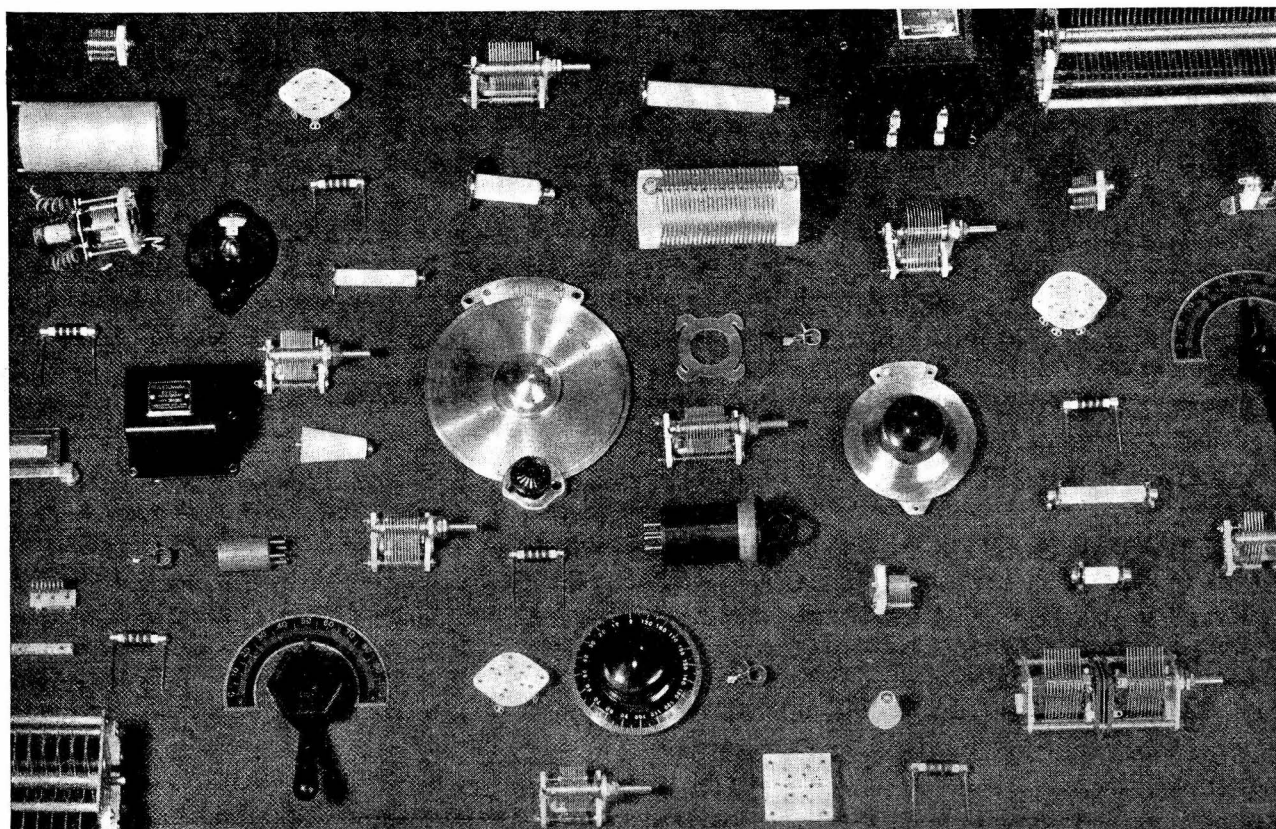
City.....

State.....

WHOLESALE RADIO SERVICE CO. INC.
100 SIXTH AVE. NEW YORK, N.Y. **430 W. PEACHTREE ST. N.W. ATLANTA, GA.**

NEWARK LOCAL BRANCH: 219 Central Ave., Newark, New Jersey

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine



PARTS BY NATIONAL

The trite saying that to do a thing well, one must do it oneself, is nevertheless true in receiver manufacture. It is more through necessity than choice that National manufactures such a variety of parts, for in no other way can high receiver performance be maintained.

Only by painstaking design of every important detail, without compromise and without divided responsibility, can National's claim to leadership be valid. To us, this policy brings complete control of National quality. To our customers, it brings the assurance of consistent design in National receivers and of tested fitness in every National Radio Part.



NATIONAL COMPANY, INC., MALDEN, MASS.

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

OHMITE

Announces An Entirely New and Original AMATEUR HANDBOOK!

Here is the Handbook that you have been waiting for... sixteen pages chuck-full of original data about resistors and rheostats... how to figure voltage dividers... bleeder resistors... filament rheostats... center-tapped resistors. Ingenious charts and tables devised by a prominent radio engineer eliminate formulas and save 90% of the work.

The OHMITE AMATEUR HANDBOOK contains sections on Voltage Dividers, Bleeder Resistors, Wirewound Resistors, Class-B Modulators, Electron-Coupled Frequency-Meter Supplies, Transmitter Power Supplies, Receiver Power Supplies, Filament Control Rheostats, Ohm's Law, Wattage of resistors, Center-tapped Resistors, and many other items.

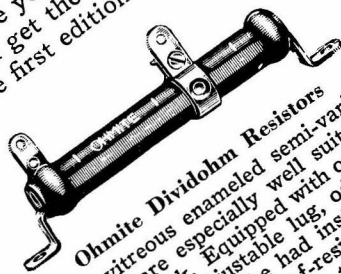
Written by a radio engineer who is familiar with the amateur's problems, this book brings you information which is now obtainable for the first time.

PRICE 10c POSTPAID

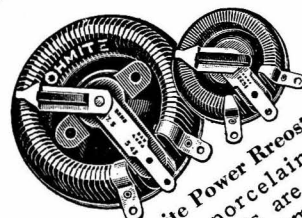
Use the coupon below or secure your copy from your parts dealer. In any event you will get the biggest dime's worth you have ever received. The first edition may not last long so get your copy at once.



Ohmite Multivolt Resistors
The new MULTIVOLT Resistors were designed especially for amateur use. They make ideal voltage dividers as each unit has ten taps which can be used to supply intermediate voltages. The entire resistor is covered with vitreous enamel so that the resistance wire is protected. By using a spring-clip the desired voltage may be quickly taken off without any possibility of injuring the winding. Approved by many prominent amateurs who have been testing these units in actual practice. Shown in the OHMITE AMATEUR HANDBOOK AND CATALOG NO. 10.



Ohmite Dividohm Resistors
These vitreous enameled semi-variable resistors are especially well suited for amateur work. Equipped with one fixed lug and one adjustable lug, odd resistance values may be had instantly; the patented percentage-of-resistance scale makes it possible to set the adjustable lugs at the desired points without the aid of meters. Several adjustable lugs may be used on one unit without shorting out much resistance as a "ball-point" is used to make contact on the winding. DIVIDOHM resistors are carried in stock in over a hundred different resistance values and in five different sizes. See the OHMITE CATALOG NO. 10.



Ohmite Power Rheostats
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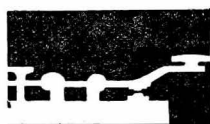
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